## FACULTY OF HEALTH SCIENCES DEPARTMENT OF PSYCHOLOGY & COUNSELLING

## 2023/2024 – SEMESTER II —FINAL EXAMINATION



BSC (HONS) IN PSYCHOLOGY
PLU 3310 - BIOLOGICAL PSYCHOLOGY- LEVEL 4
FINAL EXAMINATION PAPER
DUBATION: 03 HOURS

TIME: 9.30 A.M		
TION 2: STRUCTURED ESSAY QUESTIONS (60 MARKS)		
se <u>04 out of the 06 questions</u> given below and answer using the provided	answer sheet	
Human body is made up of biochemical and structural building blocks.		
<ul> <li>a) Name four laboratory techniques used to investigate the structural, functional aspects of the nervous system.</li> </ul>	or both (4 marks)	
b) Name three main classes of carbohydrates with an example of each.	(6 marks)	
c) Describe the function of the cytoskeleton _	(5 marks)	
Nervous system is one of the most complex systems in the human body.		
a) What are the three basic functions of the human nervous system?	(3 marks)	
b) Explain the difference between the sympathetic and parasympathetic nervous		
	(8 marks)	
c) Describe the function of the blood-brain barrier.	(4 marks)	
Cerebral cortex and cerebral hemispheres are integral to many aspect	s of human	
	x. (8 marks)	
	(4 marks)	
c) What are the types of fibers found in the cerebral hemisphere?	(3 marks)	
Central Nervous system is composed of brain and spinal cord. Onders structure and the function of these are important reveal how neurology	standing the gical	
•	(2 marks)	
b) Explain the two types of pain sensation	(7 marks)	
	FION 2: STRUCTURED ESSAY QUESTIONS (60 MARKS)  se 04 out of the 06 questions given below and answer using the provided  Human body is made up of biochemical and structural building blocks.  a) Name four laboratory techniques used to investigate the structural, functional aspects of the nervous system.  b) Name three main classes of carbohydrates with an example of each.  c) Describe the function of the cytoskeleton.  Nervous system is one of the most complex systems in the human body  a) What are the three basic functions of the human nervous system?  b) Explain the difference between the sympathetic and parasympathetic nersystems in terms of their functions.  c) Describe the function of the blood-brain barrier.  Cerebral cortex and cerebral hemispheres are integral to many aspect cognition and behaviour.  a) Explain the functions associated with different lobes of the cerebral corte b) Describe the primary functions of the limbic system.  c) What are the types of fibers found in the cerebral hemisphere?  Central Nervous system is composed of brain and spinal cord. Understructure and the function of these are important reveal how neurolog processes shape behaviour.  a) Name the two main functions of the spinal cord.	

c) Explain the cortical lateralization in brain function with examples.

(6 marks)

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2.5	Vision and hearing are crucial for survival among the five human sense Understanding their functions and potential defects is important as the play a key role in how we perceive, interpret, and respond to our environment	se senses
	a) Explain the common defects of the image-forming mechanism of the huneye.	nan ( <b>9 marks</b> )
	b) Describe the function of cochlea in hearing.	(3 marks)
	c) Define myocardial infarction. (Heart Attack)	(3 marks)
2.6	Functioning of the nervous system relies on various cellular component facilitate signal transmission.  a) Explain the importance of myelin sheath neuron function.	s that (2 marks)
	b) Describe the function of neu romodulators at synapses.	(5 marks)
· •	c) Describe the function of four main types of neuroglia found in the central	nervous (8 marks)
	END OF QUESTION PAPER	